

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	47	("3650094" "4032438" "4055491" "4076617" "4126547" "4280823" "4475921" "4523682" "4561953" "4673512" "4743361" "4759775").PN. OR ("5085783").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/02 14:45
L4	35	("5085783").URPN.	USPAT	ADJ	ON	2009/12/02 14:46
L5	0	210/748.01.ccls.	USPAT	ADJ	ON	2009/12/02 14:55
L6	0	210/748.02.ccls.	USPAT	ADJ	ON	2009/12/02 14:55
L7	0	210/748.03.ccls.	USPAT	ADJ	ON	2009/12/02 14:55
L8	177	demulsify	USPAT	ADJ	ON	2009/12/02 15:03
L9	1	demulsify\$ device	USPAT	ADJ	ON	2009/12/02 15:06
L10	1628	210/748.ccls.	USPAT	ADJ	ON	2009/12/02 15:08
L11	66954	"422"/\$.ccls.	USPAT	ADJ	ON	2009/12/02 15:08
L12	66954	"422"/\$.ccls.	USPAT	ADJ	ON	2009/12/02 15:08
L13	66954	"422"/\$.ccls.	USPAT	ADJ	ON	2009/12/02 15:08
L14	30349	"205"/\$.ccls.	USPAT	ADJ	ON	2009/12/02 15:09
L15	89880	"250"/\$.ccls.	USPAT	ADJ	ON	2009/12/02 15:09
L16	66954	"422"/\$.ccls.	USPAT	ADJ	ON	2009/12/02 15:09
L17	408	134/109.ccls.	USPAT	ADJ	ON	2009/12/02 15:09
L18	484	134/108.ccls.	USPAT	ADJ	ON	2009/12/02 15:09

L19	0	("H001568").URPN.	USPAT	ADJ	ON	2009/12/02 15:10
L20	0	516/748.ccls.	USPAT	ADJ	ON	2009/12/02 15:11
L21	304	516/79.ccls.	USPAT	ADJ	ON	2009/12/02 15:11
L22	42	95/175.ccls.	USPAT	ADJ	ON	2009/12/02 15:12
L23	899	210/767.ccls.	USPAT	ADJ	ON	2009/12/02 15:24
S1	2	countercurrent ultrasonic wave	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:36
S2	2667	210/748.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:38
S3	2	Gou, shequan.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:39
S4	2	da, jianwen.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:39
S5	2	zhang, yougui.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:40
S6	181	han, ping.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:40
S7	2	zhang, jingyi.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:40
S8	254	516/113.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:41

S9	676994	(ultrasonic or transducer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:44
S10	2	S6 and S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:45
S11	2	S8 and S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:45
S12	458	S2 and S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:45
S13	0	S12 and ultrasonid transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:57
S14	89	S12 and ultrasonic transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:57
S15	4	S14 and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:58
S16	21	210/728.ccls. and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:03
S17	47373	oil and water emulsion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:04
S18	47373	oil and water emulsion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:04

S19	1164	S18 and transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:04
S20	114	S19 and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:05
S21	27	S20 and ultrasonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:05
S22	41845	(oil with water emulsion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:07
S23	1054	S22 and transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:08
S24	346	S23 and ultrasonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:08
S25	27	S24 and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:08
S26	1	"5225089".PN.	USPAT; USOCR	ADJ	ON	2008/12/05 12:47
S27	33	("4055491" "4280823" "4398925" "4523682" "4673512" "4759775").PN. OR ("5225089").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/05 12:48

S28	45	("4055491" "4280823" "4393708" "4475921" "4523682" "4549435" "4573356" "4736815" "4743361" "4877516" "4890268" "5006266" "5036944" "5060651" "5085783" "5091893" "5147562" "5164094" "5192450" "5225089" "5257676" "5329496" "5419877" "5460181" "5484537" "5527460" "5831166" "5902489" "6029518" "Re33524").PN. OR ("6216538").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/06 17:45
S29	14	("6055859").URPN.	USPAT	ADJ	ON	2008/12/06 18:28
S30	9	("5688405").URPN.	USPAT	ADJ	ON	2008/12/06 19:05
S31	16	"5951456"	USPAT	ADJ	ON	2008/12/06 19:41
S32	15	("5951456").URPN.	USPAT	ADJ	ON	2008/12/06 19:49
S33	0	("6065949").URPN.	USPAT	ADJ	ON	2008/12/06 19:50
S34	66	516/195.ccls.	USPAT	ADJ	ON	2008/12/06 20:01
S35	0	252/349.ccls.	USPAT	ADJ	ON	2008/12/06 20:07
S36	0	252/796.ccls.	USPAT	ADJ	ON	2008/12/06 20:07
S37	100	204/157.42.ccls.	USPAT	ADJ	ON	2008/12/06 20:08
S38	1	("5717181").URPN.	USPAT	ADJ	ON	2008/12/06 20:14
S39	0	"157""."62".ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:05

S40	0	157/62.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:05
S41	209	204/157.62.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:06
S42	11	optical scissors	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:24
S43	1052	optical tweezers	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:30
S44	27369	ultrasonic transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:44
S45	8647	S44 and water	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:44
S46	2218	S45 and oil	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:44
S47	1399	demulsify	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 22:11
S48	12	S47 and ultrasonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 22:11
S49	0	countercurrent ultrasonic wave	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 11:41

S50	2	countercurrent ultrasonic wave	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 11:41
S51	15	("1865433" "2417722" "3264213" "3458140" "3672823" "3686115" "3772188" "3807563" "3886064").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/13 12:07
S52	25	("4003832").URPN.	USPAT	ADJ	ON	2009/05/13 12:29
S53	0	"10569967"	USPAT	ADJ	ON	2009/05/13 13:02
S54	0	"10/569967"	USPAT	ADJ	ON	2009/05/13 13:02
S55	0	"10569967"	USPAT	ADJ	ON	2009/05/13 13:03
S56	8373	transducer and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:30
S57	1886	S56 and oil and water	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:31
S58	54	S57 and ultra\$sonic wave	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:32
S59	47	S58 and concurrent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:35
S60	118	transducer and (concurrent and countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:36
S61	1	S60 and S58	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:37

S62	2726	210/748.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:43
S63	0	210/2968D.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:43
S64	0	210/2968.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:43
S65	255	516/113.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:57
S66	1	S65 and transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:57
S67	19	"5951456"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 14:08
S68	0	("6065949").URPN.	USPAT	ADJ	ON	2009/05/13 14:20
S69	15	("5951456").URPN.	USPAT	ADJ	ON	2009/05/13 14:21
S70	622	425/4R.ccls.	USPAT	ADJ	ON	2009/05/13 14:30
S71	18	S70 and transducer	USPAT	ADJ	ON	2009/05/13 14:30
S72	4521	oil and emulsion and transducer	USPAT	ADJ	ON	2009/05/13 14:33
S73	310	S72 and ultrasonic wave	USPAT	ADJ	ON	2009/05/13 14:33
S74	38	("2714186" "3169013" "3176964" "3301535").PN. OR ("3614069").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/13 14:35
S75	39	("4120699").URPN.	USPAT	ADJ	ON	2009/05/13 14:39
S76	27	electrostatic desalting	USPAT	ADJ	ON	2009/05/13 15:22

S77	1289	transducer and "210"/\$. ccls.	USPAT	ADJ	ON	2009/05/13 21:26
S78	67	S77 and standing wave	USPAT	ADJ	ON	2009/05/13 21:28
S79	34	("5085783").URPN.	USPAT	ADJ	ON	2009/05/13 21:55
S80	6	"5085783".pn. or "4743361".pn. or "5147562".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 22:13
S81	2	S80 and (oil or water)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 22:13

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L24	184	oil and emulsion and transducer.clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:25
L25	0	countercurrent ultrasonic wave.clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:29
L26	18	demulsify.clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:30
L27	1	oil and demulsify and transducer.clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:30
L28	1	transducer and (concurrent and countercurrent).clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:31
L29	3	("s44" and "s47").clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:31

12/ 2/ 2009 3:32:34 PM

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